Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

```
=> s pyroglutamic acid
            108 PYROGLUTAMIC
        6381520 ACID
L1          105 PYROGLUTAMIC ACID
                (PYROGLUTAMIC(W)ACID)


=> s pyroglutamic acid/cn
L2            1 PYROGLUTAMIC ACID/CN


=> d l2


L2    ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    98-79-3  REGISTRY
CN    L-Proline, 5-oxo- (9CI)   (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN    Proline, 5-oxo-, L- (8CI)
OTHER NAMES:
CN    (-)-2-Pyrrolidone-5-carboxylic acid
CN    (-)-Pyroglutamic acid
CN    (5S)-2-Oxopyrrolidine-5-carboxylic acid
CN    (S)-(-)-.gamma.-Butyrolactam-.gamma.-carboxylic acid
CN    (S)-(-)-2-Pyrrolidone-5-carboxylic acid
CN    (S)-2-Pyrrolidone-5-carboxylic acid
CN    (S)-5-Oxo-2-pyrrolidinecarboxylic acid
CN    (S)-Pyroglutamic acid
CN    2-L-Pyrrolidone-5-carboxylic acid
CN    2-Oxopyrrolidine-5(S)-carboxylic acid
CN    2-Pyrrolidinone-5-carboxylic acid
CN    5-Carboxy-2-pyrrolidinone
CN    5-Oxo-L-proline
CN    5-Oxoproline
CN    5-Pyrrolidinone-2-carboxylic acid
CN    Ajidew A 100
CN    Glutimic acid
CN    Glutiminic acid
CN    L-2-Pyrrolidone-5-carboxylic acid
CN    L-5-Carboxy-2-pyrrolidinone
CN    L-5-Oxo-2-pyrrolidinecarboxylic acid
CN    L-5-Oxoproline
CN    L-Glutamic acid, .gamma.-lactam
CN    L-Glutimic acid
CN    L-Glutiminic acid
CN    L-Pyroglutamic acid
CN    L-Pyrrolidinonecarboxylic acid
CN    L-Pyrrolidonecarboxylic acid
CN    NSC 143034
CN    Oxoproline
CN    Oxopyrrolidinecarboxylic acid
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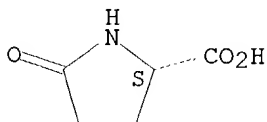
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CN    PCA
CN    Pidolic acid
CN    Pidolidone
CN    Pyroglutamic acid
CN    Pyrrolidinonecarboxylic acid
CN    Pyrrolidone-5-carboxylic acid
CN    Pyrrolidonecarboxylic acid
AR    35255-51-7
FS    STEREOSEARCH
DR    6886-28-8, 498-91-9, 16891-48-8, 87430-62-4, 29222-42-2, 312618-42-1
MF    C5 H7 N O3
CI    COM
LC    STN Files:   ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS,
BIOSIS,
        BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
        CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE,
GMELIN*,
        HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
NIOSHTIC,
        PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USAN, USPAT2,
        USPATFULL
           (*File contains numerically searchable property data)
      Other Sources:   DSL**, EINECS**, TSCA**, WHO
           (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA  CAplus document type:  Conference; Dissertation; Journal; Patent
RL.P   Roles from patents:  ANST (Analytical study); BIOL (Biological study);
       CMBI (Combinatorial study); FORM (Formation, nonpreparative); OCCU
       (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties);
RACT
       (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P  Roles for non-specific derivatives from patents:  ANST (Analytical
       study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP
       (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
       reagent); USES (Uses)
RL.NP  Roles from non-patents:  ANST (Analytical study); BIOL (Biological
       study); CMBI (Combinatorial study); FORM (Formation, nonpreparative);
       MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
       (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
       NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents:  ANST (Analytical
       study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
       (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
       PRP (Properties); RACT (Reactant or reagent); USES (Uses)


Absolute stereochemistry.  Rotation (-).
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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

          2489 REFERENCES IN FILE CA (1907 TO DATE)
           153 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
          2494 REFERENCES IN FILE CAPLUS (1907 TO DATE)
```

```
=> s l glutamic acid/cn
L3              0 L GLUTAMIC ACID/CN

=> s glutamic acid/cn
L4              2 GLUTAMIC ACID/CN

=> d 1-2
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L4   ANSWER 1 OF 2 REGISTRY COPYRIGHT 2004 ACS on STN
RN   617-65-2 REGISTRY
CN   **Glutamic acid (9CI)**   (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   DL-Glutamic acid
CN   Glutamic acid, DL- (8CI)
OTHER NAMES:
CN   (.+-.)-Glutamic acid
CN   Glutaminic acid
CN   NSC 206301
CN   NSC 9967
FS   3D CONCORD
MF   C5 H9 N O4
CI   COM
LC   STN Files: ADISNEWS, AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA,
        CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM,
        DETHERM*, DIOGENES, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MRCK*,
        PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USPAT2,
        USPATFULL, VTB
           (*File contains numerically searchable property data)
        Other Sources: DSL**, EINECS**, TSCA**
           (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Journal; Patent
RL.P   Roles from patents: ANST (Analytical study); BIOL (Biological study);
        FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process);
        PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No
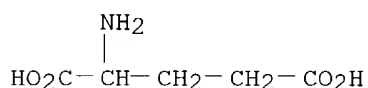role
        in record)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological
        study); PREP (Preparation); PRP (Properties); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
        study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
        (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties);
RACT
        (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
        study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP
        (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
        reagent)

        NH_2
        |
$HO_2C-CH-CH_2-CH_2-CO_2H$

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            880 REFERENCES IN FILE CA (1907 TO DATE)
             36 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            880 REFERENCES IN FILE CAPLUS (1907 TO DATE)
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L4    ANSWER 2 OF 2   REGISTRY   COPYRIGHT 2004 ACS on STN
RN    56-86-0   REGISTRY
CN    L-Glutamic acid (9CI)   (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN    Glutamic acid, L- (7CI, 8CI)
OTHER NAMES:
CN    (2S)-2-Aminopentanedioic acid
CN    (S)-(+)-Glutamic acid
CN    (S)-2-Aminopentanedioic acid
CN    (S)-Glutamic acid
CN    .alpha.-Aminoglutaric acid
CN    .alpha.-Glutamic acid
CN    1-Aminopropane-1,3-dicarboxylic acid
CN    2-Aminoglutaric acid
CN    2-Aminopentanedioic acid
CN    Aciglut
CN    E 620
CN    Glusate
CN    Glutacid
CN    **Glutamic acid**
CN    Glutamicol
CN    Glutamidex
CN    Glutaminic acid
CN    Glutaminol
CN    Glutaton
CN    L-(+)-Glutamic acid
CN    L-.alpha.-Aminoglutaric acid
CN    l-Glutaminic acid
CN    L-Glutaminic acid
CN    NSC 143503
CN    Pentanedioic acid, 2-amino-, (S)-
FS    STEREOSEARCH
DR    6899-05-4, 10549-13-0, 138-16-9
MF    C5 H9 N O4
CI    COM
LC    STN Files:   ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*,
BIOBUSINESS,
          BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN,
          CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*,
          DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT,
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